27 August 1995

ASTER_IRD_FPRS_LINKS_CORRECTIONS

IRD	IRD_segment	IRD_text	IRD_clarification	FPRS	L3_type	L3_segment	L3_text	L3_clarification
ASTER-0010	SDPS | CSMS	ECS and ASTER GDS shall conform to the IRD Between EOSDIS Core System and Science Computing Facilities with regard to the passing of data production software, calibration coefficients, data product quality assurance information and other data between the two systems in support of data production software development for standard ASTER data products.		EOSD1750	interface	CSMS	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is):a.Algorithmsb.Software fixesc.Instrument calibration datad.Integration support requestse.Metadata for Special Products archivingf.Data transfer requests (inventories, directories, and browse)g.Data Quality/Instrument assessmenth.Instrument operations informationi.Ancillary data	
				EOSD1760	interface	CSMS	The ECS elements shall send the following types of data at a minimum to the ECS science community (TLs, TMs, PIs, and Co-Is):a.Software Problem Reportsb.Documentationc.Metadata (copies of inventories)d.Browse datae.Archived dataf.Accounting information	

ASTER-0020	SDPS	ASTER GDS shall have the capability to send and ECS (EDC DAAC) shall have the capability to receive all algorithms, source code, and documentation used by the ASTER GDS to process ASTER Level 0 data to Level 1 and higher level standard products.		EOSD1750	interface	CSMS	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is):a.Algorithmsb.Software fixesc.Instrument calibration datad.Integration support requestse.Metadata for Special Products archivingf.Data transfer requests (inventories, directories, and browse)g.Data Quality/Instrument assessmenth.Instrument operations informationi.Ancillary data	
				DADS0200	functional	SDPS	Each DADS shall receive from the IPs at a minimum, the following:a.L0-L4 data productsb.Orbit/attitude datac.Metadata associated with data setsd.Ancillary datae.Calibration dataf.Correlative datag.Documentsh.Algorithms	Deleted 604 L2 trace. DVDeleted 1411 L2 trace. DVDeleted 1427 L2 trace. DV
ASTER-0030	SDPS	ECS (EDC DAAC) shall have the capability to send and ASTER GDS shall have the capability to receive all algorithms, source code, and documentation used by ECS to process ASTER Level 1 data to higher level products.		EOSD1760	interface	CSMS	The ECS elements shall send the following types of data at a minimum to the ECS science community (TLs, TMs, PIs, and Co-Is):a.Software Problem Reportsb.Documentationc.Metadata (copies of inventories)d.Browse datae.Archived dataf.Accounting information	
ASTER-0040	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive EOS Long Term Science Plans.		ICC-0040	functional	FOS	The ICC shall receive the LTSP and LTIP from the SMC.	

				SMC-1300	functional	CSMS	The SMC shall support and maintain the ECS policies and procedures regarding instrument and ground event scheduling, including, at a minimum:a.Mission and science guidelinesb.Directives for scheduling instrument data ingest, processing, reprocessing, retrieval, and data distribution	Deleted 1469,1478 L2 traces. DV
ASTER-0045	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive EOS Long Term Instrument Plans.		ICC-0040	functional	FOS	The ICC shall receive the LTSP and LTIP from the SMC.	
				SMC-1300	functional	CSMS	The SMC shall support and maintain the ECS policies and procedures regarding instrument and ground event scheduling, including, at a minimum:a.Mission and science guidelinesb.Directives for scheduling instrument data ingest, processing, reprocessing, retrieval, and data distribution	Deleted 1469,1478 L2 traces. DV
ASTER-0050	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive requests for updates to the ASTER operations data base.		EOC-7015	functional	FOS	The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto.	
ASTER-0060	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive an updated EOC operations data base, containing at a minimum, spacecraft and instrument telemetry formats, limits, and associated information and ASTER instrument command formats andassociated information.		EOC-7015	functional	FOS	The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto.	

ASTER-0100	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive information on ASTER instrument operations and constraints that may be applicable to DAR specification. The ASTER instrument constraint information shall include (at a minimum):a. descriptive information for the ASTER instrumentb. default settings for instrument configurable parametersc.range of values for instrument configurable parametersd. instrument constraint information		IMS-0280	interface	SDPS	The IMS shall maintain DAR generation information, for example, instrument information received from the ICC and spacecraft information received from the EOC, in a data base which will be accessible during the DAR planning and submittal process.	

ASTER-0110	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive DARs for the ASTER instrument. DARs shall contain the following information, at a minimum:a. Observation numberb. Experimenter identificationc. Experimenter addressd. Investigation identificatione. Scientific disciplinef. Observation repetition periodg. Tolerance in observation timeh. User priorityi. Scheduling priority and target of opportunity flagj. Descriptive textk. Location data expressed in terms of longitude and latitude as earliest start coordinates and latest stop coordinatesl. Earliest start timem. Latest stop timen. Minimum coverage requiredo. Maximum coverage desiredp. Number of instruments involved in the investigationq. Which instruments are involved in the investigation.r.Associated product generation request and product distribution request		IMS-1261	interface	SDPS	The IMS shall provide the capability to forward data acquisition requests to the ASTER GDS, in accordance with applicable IRDs and ICDs.	

				IMS-1070	functional	SDPS	The IMS shall provide the capability for users to construct DARS for collection of EOS data which shall contain the following information at a minimum:a.Observation numberb.Experimenter identificationc.Experimenter addressd.Investigation identificatione.Scientific disciplinef.Observation repetition periodg.Tolerance in observation timeh.User priorityi.Scheduling priority and target of opportunity flagj.Descriptive textk.Location data expressed in terms of longitude and latitude as earliest start coordinates and latest stop coordinatesl.Earliest start timem.Latest stop timen.Minimum coverage requiredo.Maximum coverage desiredp.Number of instruments involved in the investigationq.Which instruments are involved in the investigation	

ASTER-0120	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive DAR status, when requested by ECS. DAR status shall include such information as confirmation or rejection of the DAR, and notification of DAR scheduling and completion, to include at a minimum:a. Date and timeb.Instrument IDc. DAR IDd. Request statuse.Implementation schedulef. If rejection, then the reason for the rejection.		IMS-1262	interface	SDPS	The IMS shall provide the capability to receive the ASTER GDS data acquisition request status in accordance with applicable IRDs and ICDs and provide the status to the data acquisition requester.	
				IMS-1260	interface	SDPS	The IMS shall provide the capability to receive, from the IP Information Management System or an equivalent IP facility, data acquisition request status in accordance with applicable MOUs and provide the status to the data acquisition requester.	Deleted 1141 L2 trace. DV
ASTER-0130	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive queries for the current status of ASTER DARs which were previously submitted to the ASTER GDS by ECS.		IMS-1262	interface	SDPS	The IMS shall provide the capability to receive the ASTER GDS data acquisition request status in accordance with applicable IRDs and ICDs and provide the status to the data acquisition requester.	
				IMS-1260	interface	SDPS	The IMS shall provide the capability to receive, from the IP Information Management System or an equivalent IP facility, data acquisition request status in accordance with applicable MOUs and provide the status to the data acquisition requester.	Deleted 1141 L2 trace. DV

ASTER-0200	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive planning aids (e.g., predicted orbit data, and spacecraft maneuver information).		EOC-2010	functional	FOS	The EOC shall accept from the FDF planning and scheduling information for the EOS spacecraft and instruments, which includes, at a minimum, the following:a.Predicted orbit data including predicted ground trackb.EOS spacecraft UAV datac.PSATsd. Spacecraft maneuver information	
				EOC-2040	security	FOS	The EOC shall provide to any authorized users (including the ICCs) read-only access to EOS planning and scheduling information.	
ASTER-0210	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive ASTER instrument resource profiles and instrument resource deviation lists (when a resource profile exists).		EOC-2270	functional	FOS	The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC.	
ASTER-0220	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive a notification when ASTER instrument resource profile information cannot be integrated into the preliminary resource schedule.		EOC-2290	functional	FOS	Whenever the ICC's instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict.	

ASTER-0230	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive a preliminary resource schedule. The preliminary resource schedule shall include, at a minimum, the following:a. Activity and DAR identifiersb. Resource availability and usage requirementsc. Time constraintsd. TDRSS schedule		EOC-2040	security	FOS	The EOC shall provide to any authorized users (including the ICCs) read-only access to EOS planning and scheduling information.	
				EOC-2350	functional	FOS	The EOC shall provide the preliminary resource schedule to the ICCs upon generation.	
				EOC-2320	functional	FOS	The preliminary resource schedule shall include, at a minimum, the following:a.Activity or DAR identifiersb.Resource availability and usage requirementsc.Time constraints and alternatives for planned activitiesd. TDRSS schedule	
ASTER-0240	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive instrument activity lists and instrument activity deviation lists (when an activity list exists) and any updates thereto.		EOC-2480	functional	FOS	The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto.	
ASTER-0250	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive a notification when the ASTER instrument activities cannot be integrated into the detailed activity schedule.		EOC-2540	functional	FOS	The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	

ASTER-0260	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive detailed activity schedules and any updates. The detailed activity schedule shall include, at a minimum, the following:a. Instrument activitiesb. Spacecraft activities necessary to support all instrument activitiesc. All spacecraft activities necessary for spacecraft subsystem maintenanced. Spacecraft resource requirements for each activitye. Traceability of instrument activities to DARs		EOC-2040	security	FOS	The EOC shall provide to any authorized users (including the ICCs) read-only access to EOS planning and scheduling information.	
				EOC-2550	functional	FOS	The detailed activity schedule shall include, at a minimum, the following:a. Instrument activitiesb. Spacecraft activities necessary to support all instrument activitiesc. Spacecraft activities necessary for the spacecraft subsystem maintenanced. Spacecraft resource requirements for each activitye. Traceability of instrument activities to DARs.	
				EOC-2620	functional	FOS	The EOC shall provide the ICC with the detailed activity schedule and any updates upon generation.	

ASTER-0300	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive, both electronically and by voice, information to facilitate, at a minimum, the following:a. Planning of coordinated operationsb. Resolution of conflictsc. Exchange of instrument status		ICC-0050	functional	FOS	An ICC shall have the capability to interface with other ICCs both electronically and by voice to facilitate, at a minimum, the following:a.Planning of coordinated operationsb.Resolution of conflictsc.Exchange of instrument status	
ASTER-0310	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive, both electronically and by voice, information to facilitate, at a minimum, the following:a. Planning of coordinated operationsb. Resolution of conflictsc. Exchange of instrument status		ICC-0050	functional	FOS	An ICC shall have the capability to interface with other ICCs both electronically and by voice to facilitate, at a minimum, the following:a.Planning of coordinated operationsb.Resolution of conflictsc.Exchange of instrument status	
ASTER-0340	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive "What-If" planning and scheduling inputs.		EOC-2260	security	FOS	The EOC shall provide 'what-if' capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs.	
ASTER-0350	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive "What-If" planning and scheduling results.		EOC-2260	security	FOS	The EOC shall provide 'what-if' capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs.	
ASTER-0410	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive command load generation status information, including at a minimum, the following:a. Spacecraft Control Computer (SCC)-stored command load reportb. Integrated report having orbital events, command execution times, and TDRSS contacts with candidate loads		EOC-3160	functional	FOS	The EOC shall generate operational reports including, at a minimum, the following:a.SCC-stored command load reportb.Integrated report having orbital events, command execution times, and TDRS contacts with candidate loads.	

ASTER-0520	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive real time command groups.		EOC-4017	functional	FOS	The EOC shall receive from the ICC instrument real-time command groups destined for the EOS spacecraft and instruments.	
ASTER-0530	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive instrument command uplink status. Instrument command uplink status shall include (at a minimum):a. receipt of the command group at the EOCb.validation status at the EOCc. receipt of the command at the AM-1 spacecraft		EOC-4166	functional	FOS	The EOC shall provide the ICC with instrument uplink status, which includes at a minimum the following:a.Receipt at the EOCb.Validation statusc.Receipt at the spacecraft and instrument	
ASTER-0540	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive pre-planned command groups.		EOC-3200	functional	FOS	The EOC shall accept from the ICC instrument preplanned command groups for issuance by the EOC in the event of an anomaly that requires an immediate responseor in the event that the ICC is unable to command the instrument.	
ASTER-0550	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive instrument command notification when ECS issues emergency/contingency ASTER command groups.		EOC-4168	functional	FOS	The EOC shall provide the ICCs with instrument command notification messages, when emergency/contingency instrument commands are issued.	
ASTER-0570	FOS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive ASTER instrument status data.		EOC-6020	functional	FOS	The EOC shall accept instrument status data from each ICC.	
ASTER-0580	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive AM-1 spacecraft status data.		EOC-7125	functional	FOS	The EOC shall provide spacecraft status data to an ICC.	

ASTER-0590	FOS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive mission status reports.		EOC-7125	functional	FOS	The EOC shall provide spacecraft status data to an ICC.	
ASTER-0600	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive instrument history log data and associated metadata.		DADS0150	functional	SDPS	Designated DADS shall receive from the ICC, at a minimum, the following:a.Instrument history log (or subset of history log)b. Associated Metadata	Deleted 592 L2 trace. DV
ASTER-0700	SDPS	ASTER GDS shall have the capability to send and ECS (EDC DAAC) shall have the capability to receive Level 1a data products, including associated ancillary data, metadata, and browse.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				DADS0200	functional	SDPS	Each DADS shall receive from the IPs at a minimum, the following:a.L0-L4 data productsb.Orbit/attitude datac.Metadata associated with data setsd.Ancillary datae.Calibration dataf.Correlative datag.Documentsh. Algorithms	Deleted 604 L2 trace. DVDeleted 1411 L2 trace. DVDeleted 1427 L2 trace. DV
				SDPS0025		SDPS	The SDPS shall accept scientific and non-scientific investigator supplied dataset specific data transformations.	
				SDPS0020		SDPS	The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.	Deleted 604 L2 trace. DV

ASTER-0710	SDPS	ASTER GDS shall have the capability to send and ECS (EDC DAAC) shall have the capability to receive Quick Look Level 1 (TBD) data products, including associated ancillary data, metadata, and browse. [TBR]		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				DADS0200	functional	SDPS	Each DADS shall receive from the IPs at a minimum, the following:a.L0-L4 data productsb.Orbit/attitude datac.Metadata associated with data setsd.Ancillary datae.Calibration dataf.Correlative datag.Documentsh.Algorithms	Deleted 604 L2 trace. DVDeleted 1411 L2 trace. DVDeleted 1427 L2 trace. DV
				SDPS0025		SDPS	The SDPS shall accept scientific and non-scientific investigator supplied dataset specific data transformations.	
				SDPS0020		SDPS	The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.	Deleted 604 L2 trace. DV
ASTER-0730	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive orbit/attitude data anomaly notifications.		DADS2390	functional	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0-L4b.Metadatac.Ancillary datad.Calibration datae.Correlative dataf.Documents	
ASTER-0740	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive repaired/refined orbit data provided to ECS by the GSFC Flight Dynamics Facility.		DADS2390	functional	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0-L4b.Metadatac.Ancillary datad.Calibration datae.Correlative dataf.Documents	

ASTER-0750	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive repaired/refined attitude data provided to ECS by the GSFC Flight Dynamics Facility.		DADS2390	functional	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0-L4b.Metadatac.Ancillary datad.Calibration datae.Correlative dataf.Documents	
ASTER-0760	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive data availability schedules for ASTER GDS data products which were requested by ECS.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				DADS2020	functional	SDPS	Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADCsd.ODCse.Other DADSf.TRMM (SDPF)	
				PGS-0150	functional	SDPS	The PGS shall receive from the collocated DADS data availability schedules for remote DADS, EDOS, SDPF, the IPs, the ADCs and ODCs.	
ASTER-0770	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive data availability schedules for ECS data products which were requested by ASTER GDS.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				~~SDPS0110~~		~~SDPS~~	~~The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.~~	

ASTER-0780	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive schedule adjudication data.		SDPS0110		SDPS	The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.	
				SMC-1500	functional	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER-0790	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive schedule adjudication data.		SDPS0110		SDPS	The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.	
				SMC-1500	functional	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER-0800	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive dependent valids information related to ECS data products.		IMS-0380	interface	SDPS	The IMS shall provide the capability to exchange directory data with IP data centers, ADCs, and selected ODCs.	
ASTER-0805	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive dependent valids information related to ASTER GDS data products.		IMS-0380	interface	SDPS	The IMS shall provide the capability to exchange directory data with IP data centers, ADCs, and selected ODCs.	
				IMS-0390	interface	SDPS	The IMS shall maintain or provide access to directory entries for all data sets accessible through the IMS search and order service.	

				IMS-0120	functional	SDPS	The IMS shall provide, dependent upon the user's display device capabilities, a user-friendly interface with the following features at a minimum:a.Multiple window displayb.Buttons and pull down menusc.Valid lists for all variablesd. An information base of associations between variables (e.g., between instruments and geophysical parameters)e.Ability to restore a session after interruptionf.Context-sensitive helpg.Minimal and consistent use of non-standard keysh.Random movement through fieldsi.Capability to save and restore the contents of a menu or formj.Standardized use of commands and terminology across screensk.Self-explanatory, meaningful error messagesl.Automatic acronym expansion, which can be enabled and disabled interactivelym.Availability of a menu tree diagramn.Command language	
ASTER-0810	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive directory metadata related to ECS data products.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				IMS-0380	interface	SDPS	The IMS shall provide the capability to exchange directory data with IP data centers, ADCs, and selected ODCs.	

ASTER-0815	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive directory metadata related to ASTER GDS data products.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				IMS-0380	interface	SDPS	The IMS shall provide the capability to exchange directory data with IP data centers, ADCs, and selected ODCs.	
				IMS-0390	interface	SDPS	The IMS shall maintain or provide access to directory entries for all data sets accessible through the IMS search and order service.	
ASTER-0820	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive inventory search requests.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0825	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive guide search requests.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0835	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive inventory data search results.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	

ASTER-0840	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive guide search results.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0845	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive browse results.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0850	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive inventory search requests.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0855	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive guide search requests.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0860	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive browse requests.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	

ASTER-0865	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive inventory search results.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0870	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive guide search results.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0875	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive browse results.		EOSD5060	evolvable	FOS/SDPS/CSMS	ECS shall enable interoperability with equivalent International systems, e.g. European and Japanese systems, to support the following:a). Browse servicesb). Data retrieval services.	
ASTER-0880	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive user authentication requests for ASTER GDS privileges of EOSDIS users.		SMC-5320	security	CSMS	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Deleted 1255 L2 trace. DV
ASTER-0885	CSMS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive user authentication information specifying ASTER GDS privileges for EOSDIS users.		SMC-5320	security	CSMS	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Deleted 1255 L2 trace. DV
ASTER-0890	CSMS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive user authentication requests for ECS privileges of ASTER GDS users.		SMC-5320	security	CSMS	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Deleted 1255 L2 trace. DV

ASTER-0895	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive user authentication information specifying ECS privileges for ASTER GDS users.		SMC-5320	security	CSMS	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Deleted 1255 L2 trace. DV
ASTER-0900	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive product requests for ASTER GDS data products.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				IMS-0900	interface	SDPS	The IMS shall provide an interface to the IPs for ordering data to be delivered directly to the user or to a DADS.	Interface is bi-directional
ASTER-0905	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive product generation requests for ASTER GDS data products. Product generation requests will include an associated product distribution request.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				IMS-0900	interface	SDPS	The IMS shall provide an interface to the IPs for ordering data to be delivered directly to the user or to a DADS.	Interface is bi-directional

ASTER-0910	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive product delivery status information. Product delivery status information contains the following information, at a minimum:a. Requester identificationb. Request identificationc. Request statusd. If rejection, then the reason for the rejectione. If delayed longer than the latest completion time specified by the user, adjusted start and stop times.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				IMS-1010	functional	SDPS	The IMS shall accept from the PGS a processing status message to confirm or reject a processing order, which shall contain the following information at a minimum:a.Requester identificationb.Request identificationc.Request status d.If rejection, then the reason for the rejectione. If delayed longer than latest completion time specified by user, adjusted start and completion times.	

				IMS-0820	functional	SDPS	The IMS shall provide to the user product order status information from the DADS to confirm or reject an order, which contains the following information at a minimum:a.Requester identificationb.Request identificationc.Request statusd.If rejection, then the reason for the rejectione. If delayed longer than latest completion time specified by user, adjusted start and completion times	
ASTER-0915	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive requests for product delivery status.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
ASTER-0920	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive product requests for ECS data products.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				IMS-0780	interface	SDPS	The IMS shall accept and validate from the ECS users, IPs, ADCs, and ODCs requests for ECS archival data products.	
ASTER-0925	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive product generation requests for ECS data products. Product generation requests will include an associated product distribution request.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	

				IMS-0780	interface	SDPS	The IMS shall accept and validate from the ECS users, IPs, ADCs, and ODCs requests for ECS archival data products.	
ASTER-0930	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive product delivery status information. Product delivery status information contains the following information, at a minimum:a. Requester identificationb. Request identificationc. Request statusd. If rejection, then the reason for the rejectione. If delayed longer than the latest completion time specified by the user, adjusted start and stop times.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				IMS-1010	functional	SDPS	The IMS shall accept from the PGS a processing status message to confirm or reject a processing order, which shall contain the following information at a minimum:a.Requester identificationb.Request identificationc.Request status d.If rejection, then the reason for the rejectione. If delayed longer than latest completion time specified by user, adjusted start and completion times.	

				IMS-0820	functional	SDPS	The IMS shall provide to the user product order status information from the DADS to confirm or reject an order, which contains the following information at a minimum:a.Requester identificationb.Request identificationc.Request statusd.If rejection, then the reason for the rejectione. If delayed longer than latest completion time specified by user, adjusted start and completion times	
ASTER-0935	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive requests for product delivery status.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
ASTER-0940	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive Level 0 - Level 4 data products, including associated ancillary, metadata, and browse.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				DADS2390	functional	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0-L4b.Metadatac.Ancillary datad.Calibration datae.Correlative dataf.Documents	
				SDPS0100		SDPS	The SDPS shall be responsible for delivery of EOS data and data products to the IPs, the ADCs, the ODCs, and the other science users via EOSDIS networks and on a variety of physical media.	

ASTER-0945	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive Level 1b - Level 4 ASTER data products, including associated ancillary, metadata, and browse.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				SDPS0020		SDPS	The SDPS shall receive EOS science, engineering, ancillary, and quick-look data from the EDOS, the SDPF, and the IPs, and non-EOS data, in situ data, algorithms, documentation, correlative data, and ancillary data (as listed in Appendix C) from ADCs, EPDSs, and ODCs.	Deleted 604 L2 trace. DV
				DADS0200	functional	SDPS	Each DADS shall receive from the IPs at a minimum, the following:a.L0-L4 data productsb.Orbit/attitude datac.Metadata associated with data setsd.Ancillary datae.Calibration dataf.Correlative datag.Documentsh.Algorithms	Deleted 604 L2 trace. DVDeleted 1411 L2 trace. DVDeleted 1427 L2 trace. DV
ASTER-0950	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive ancillary data, including associated metadata.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				DADS2390	functional	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0-L4b.Metadatac.Ancillary datad.Calibration datae.Correlative dataf.Documents	

				SDPS0100		SDPS	The SDPS shall be responsible for delivery of EOS data and data products to the IPs, the ADCs, the ODCs, and the other science users via EOSDIS networks and on a variety of physical media.	
ASTER-0955	SDPS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive correlative data, including associated metadata.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				SDPS0100		SDPS	The SDPS shall be responsible for delivery of EOS data and data products to the IPs, the ADCs, the ODCs, and the other science users via EOSDIS networks and on a variety of physical media.	
				DADS2390	functional	SDPS	Each DADS shall send to the IPs, at a minimum, the following:a.L0-L4b.Metadatac.Ancillary datad.Calibration datae.Correlative dataf.Documents	
ASTER-0960	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive ancillary data, including associated metadata.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
ASTER-0965	SDPS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive correlative data, including associated metadata.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	

ASTER-1000	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive ECS system and network management information.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument commandloadsb.Science datac.Planning and schedulingdatad.Directoriese.Product Ordersf.Status data	
				SMC-1500	functional	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER-1005	CSMS	ECS shall have the capability to send and ASTER GDS shall have the capability to receive requests for ASTER GDS network management information.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument commandloadsb.Science datac.Planning and schedulingdatad.Directoriese.Product Ordersf.Status data	
				SMC-1500	functional	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER-1010	CSMS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive ASTER GDS system and network management information.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument commandloadsb.Science datac.Planning and schedulingdatad.Directoriese.Product Ordersf.Status data	

				SMC-1500	functional	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER-1015	CSMS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive requests for ECS network management information.		EOSD1770	interface	SDPS/CSMS	ECS elements shall exchange the following types of data at a minimum with the IPs:a.Instrument command loadsb.Science datac.Planning and scheduling datad.Directoriese.Product Ordersf.Status data	
				SMC-1500	functional	CSMS	The SMC shall perform schedule conflict analysis and resolution services in response to a schedule conflict involving sites, ECS elements, or external elements, agencies, or organizations, except for conflicts associated with flight operations.	
ASTER-1020	CSMS	ECS shall provide (via GFP PSCN circuits) the necessary communications connections to the ASTER designated pick up points (at JPL) for the U.S. Gateway for ESN (mission success) communications.		ESN-0180	functional	CSMS	The ESN shall connect with the International partners designated pickup points	
ASTER-1040	CSMS	ECS shall provide protocol translation (TBR), termination, bridging, and routing for ESN communications interfaces to the U.S. Gateway for ASTER GDS communications.		ESN-1140	functional	CSMS	The ESN shall provide protocol translation, termination, bridging and routing.	

ASTER-1060	FOS | SDPS | CSMS	ECS shall provide support for Transport Control Protocol/Internet Protocol (TCP/IP) [TBR] communications protocols to the U.S. Gateway for ASTER GDS communications.		ESN-1340	functional	CSMS	The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs.	
ASTER-2000	SDPS | CSMS | FOS	ECS functions shall have an operational availability (computed as defined in the Functional and Performance Requirements Specification for the EOSDIS Core System) of 0.96 at a minimum and a Mean Down Time (MDT) of four (4) hours or less, unless otherwise specified.		EOSD3700	RMA	FOS/SDPS/CSMS	ECS functions shall have an operational availability of 0.96 at a minimum (.998 design goal) and an MDT of four (4) hours or less (1.5 hour design goal), unless otherwise specified.	
ASTER-2030	FOS	The ECS FOS shall have an operational availability of 0.99925 at a minimum and a MDT of five (5) minutes or less for real time functions that support:a.Launchb.Early orbit checkoutc.Disposald.Orbit adjustmente.Anomaly investigationf.Recovery from safe modeg.Routine real time commanding and associated monitoring for spacecraft and instrument health and safety.		EOSD3810	RMA	FOS	The FOS shall have an operational availability of 0.99925 at a minimum (.99997 design goal) and an MDT of five (5) minutes or less (0.5 minute design goal) for non-critical real-time functions.	
ASTER-2040	FOS	The ECS FOS shall have an operational availability of 0.992 at a minimum and a MDT of (1) hour or less for functions associated with Targets of Opportunity (TOOs).		EOSD3820	RMA	FOS	The FOS shall have an operational availability of 0.992 at a minimum (.99997 design goal) and an MDT of one (1) hour or less (0.5 minute design goal) for functions associated with Targets Of Opportunity (TOOs).	

ASTER-2060	SDPS	The ECS SDPS function of receiving science data shall have an operational availability of 0.999 at a minimum and an MDT of two (2) hours or less.		EOSD3900	RMA	SDPS	The SDPS function of receiving science data shall have an operational availability of 0.999 at a minimum (.99995 design goal) and an MDT of two (2) hours or less (8 minutes design goal).	
ASTER-2080	CSMS	The ECS function for gathering and disseminating management information shall have an operational availability of .998 at a minimum and an MDT of 20 minutes or less, for critical services.		EOSD4030	RMA	CSMS	The SMC function of gathering and disseminating system management information shall have an operational availability of .998 at a minimum (.999998 design goal) and an MDT of 20 minutes or less (5 minutes design goal), for critical services.	
				EOC-5030	functional	FOS	The EOC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following:a.Messages from the NCCb.Monitor blocks from the DSN, GN, and WOTSc.Status messages from EDOS	
				SDPS0110		SDPS	The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from EDOS, SDPF, and the IPs.	
				DADS2020	functional	SDPS	Each DADS shall have the capability to receive data availability schedules at a minimum, from: a.EDOSb.IPsc.ADCsd.ODCse.Other DADSf.TRMM (SDPF)	
				DADS2060	functional	SDPS	Each DADS shall communicate with the EDOS to indicate its readiness to accept data.	

				DADS1450	functional	SDPS	Each DADS shall be capable of screening its archive holdings of Level 1A or Level 0 data, and if a product(s) is found to be lost or unreadable, generate a request for a replacement product from EDOS, dispatch the request, and ingest the replacement product.	